Title (en)

Method and apparatus for color transfer between images

Title (de)

Verfahren und Vorrichtung für den Farbtransfer zwischen Bildern

Title (fr)

Procédé et appareil de transfert de couleur entre des images

Publication

EP 2741502 A1 20140611 (EN)

Application

EP 12306537 A 20121207

Priority

EP 12306537 A 20121207

Abstract (en)

A method and an arrangement for color transfer between images for compensating color differences between at least two images as a first and a second image represented by pixel data are recommended, wherein for corresponding feature points of the images a color map and a geometric map are calculated for compensating a first image by applying said geometric map and said color map to the first image resulting in a compensated first image for detecting regions where a compensation fails by comparing the compensated first image with the second image to perform a color transfer excluding image regions where the compensation failed. The method can be performed on the fly and is applicable for equalizing color differences between images different in geometry and color which is e.g. helpful to reduce the resulting bitrate for transferring data, data compression or precise disparity estimation in 3D applications as well as for an improved color coherence of textures of 3D objects.

IPC 8 full level

H04N 13/00 (2006.01)

CPC (source: EP KR US)

G06T 5/50 (2013.01 - US); **G06T 7/00** (2013.01 - KR); **H04N 9/64** (2013.01 - US); **H04N 13/133** (2018.05 - EP US);
H04N 13/15 (2018.05 - EP US); **H04N 23/84** (2023.01 - EP KR)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2741502 A1 20140611; CN 103871037 A 20140618; EP 2741503 A1 20140611; JP 2014116012 A 20140626; KR 20140074238 A 20140617; US 2014161347 A1 20140612; US 9208549 B2 20151208

DOCDB simple family (application)

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